(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 31 March 2005 (31.03.2005)

PCT

(10) International Publication Number WO 2005/028069 A1

(51) International Patent Classification⁷: E04H 4/16

B01D 21/24,

(21) International Application Number:

PCT/AU2004/001282

(22) International Filing Date:

21 September 2004 (21.09.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003905127

22 September 2003 (22.09.2003) AU

- (71) Applicant (for all designated States except US): ULTRA AQUATIC TECHNOLOGY PTY LTD [AU/AU]; PO BOX 1604, KINGSCLIFF, New South Wales 2487 (AU).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): NIELSEN, Ian Bradley [AU/AU]; PO BOX 1604, KINGSCLIFF, New South Wales 2487 (AU).

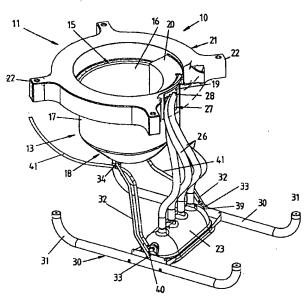
- (74) Agent: GARDNER, John R G; Suite 398, 15 Albert Avenue, BROADBEACH, GOLD COAST, Queensland 4218 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR COLLECTING AND/OR SEPARATING SOLIDS FROM LIQUIDS



(57) Abstract: Apparatus (10) for collecting solids selling on the bottom of a liquid reservoir and/or floating solids, the apparatus (10) having a hollow suction head (23) and at least one outlet duct (26) extending from the suction head (23). Air can be supplied to the suction head (23) to create a suction pressure in the suction head (23) to cause settling solids beneath the suction head (23) to pass along the outlet duct or ducts (26). The suction head (23) may be connected to a collector (11) which is provided with a float (21) to support the collector (11) at the surface of the liquid, and the outlet duct or ducts (26) are connected to the collector (11) which collects the solids. The collector (11) may also have an inlet to collect floating solids.





For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.